

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/558, 279  
Source: PCT  
Date Processed by STIC: 12/05/2005

# ***ENTERED***



PCT

## RAW SEQUENCE LISTING

DATE: 12/05/2005

PATENT APPLICATION: US/10/558,279

TIME: 10:55:20

Input Set : A:\Sequence Listing ASCII, Docket No. 1700.0640000.ST25.txt

Output Set: N:\CRF4\12052005\J558279.raw

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3 <110> APPLICANT: Beerli, Roger R.
4     Bachmann, Martin F.
6 <120> TITLE OF INVENTION: Modified Polypeptides For Targeting Cell-Entry of the
Adenoviruses of
7     Subtype B
9 <130> FILE REFERENCE: 1700.0640000/BJD/WBC
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/558,279
C--> 11 <141> CURRENT FILING DATE: 2005-11-28
11 <150> PRIOR APPLICATION NUMBER: EP03011184.3
12 <151> PRIOR FILING DATE: 2003-05-27
14 <150> PRIOR APPLICATION NUMBER: PCT/EP2004/005762
15 <151> PRIOR FILING DATE: 2004-05-27
17 <160> NUMBER OF SEQ ID NOS: 21
18 <170> SOFTWARE: PatentIn version 3.1
20 <210> SEQ ID NO: 1
21 <211> LENGTH: 1134
22 <212> TYPE: DNA
23 <213> ORGANISM: homo sapiens
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30 tttgaagcta tggagctcat tggtaaacca aaaccctact atgagattgg tgaacgagta      180
32 gattataagt gtaaaaaagg atacttctat atacctctcc ttgccacca tactatttgt      240
34 gatcggaatc atacatggct acctgtctca gatgacgcct gttatagaga aacatgtcca      300
36 tatatacggg atccttttaa tggccaagca gtccttgcaa atgggactta cgagtttggt      360
38 tatcagatgc actttatttg taatgagggt tattacttaa ttggtgaaga aattctatat      420
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42 ttgtgtacac cacctccaaa aataaaaaat ggaaaacaca cttttagtga agtagaagta      540
44 tttgagtatc ttgatgcagt aacttatagt tgtgatcctg cacctggacc agatccattt      600
46 tcacttattg gagagagcac gatttattgt ggtgacaatt cagtgtggag tcgtgctgct      660
48 ccagagtgta aagtgggtcaa atgtcgattt ccagtagtgc aaaatggaaa acagatatca      720
50 ggatttgga aaaaatttta ctacaaagca acagttatgt ttgaatgcga taagggtttt      780
52 tacctcgatg gcagcgacac aattgtctgt gacagtaaca gtacttggga tccccagtt      840
54 ccaaagtgtc ttaaagtgtc gacttcttcc actacaaaat ctccagcgtc cagtgcctca      900
56 ggtcctaggg ctacttacaa gcctccagtc tcaaattatc caggatatcc taaacctgag      960
58 gaaggaatac ttgacagttt ggatgtttgg gtcattgctg tgattgttat tgccatagtt     1020
60 gttggagttg cagtaatttg tgttgtcccg tacagatatc ttcaaaggag gaagaagaaa     1080
62 ggcacatacc taactgatga gaccacaga gaagtaaaat ttacttctct ctga           1134
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66 <211> LENGTH: 377
67 <212> TYPE: PRT
68 <213> ORGANISM: homo sapiens
70 <220> FEATURE:
71 <221> NAME/KEY: SIGNAL

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72 <222> LOCATION: (1)..(34)
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85 <220> FEATURE:
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103 <223> OTHER INFORMATION: SCR-4 domain
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108 <223> OTHER INFORMATION: STP-B region
110 <220> FEATURE:
111 <221> NAME/KEY: MISC_FEATURE
112 <222> LOCATION: (301)..(314)
113 <223> OTHER INFORMATION: STP-C region
115 <400> SEQUENCE: 2
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118 1 5 10 15
121 Pro Gly Leu Leu Leu Ala Ala Met Val Leu Leu Leu Tyr Ser Phe Ser
122 20 25 30
125 Asp Ala Cys Glu Glu Pro Pro Thr Phe Glu Ala Met Glu Leu Ile Gly
126 35 40 45
129 Lys Pro Lys Pro Tyr Tyr Glu Ile Gly Glu Arg Val Asp Tyr Lys Cys
130 50 55 60
133 Lys Lys Gly Tyr Phe Tyr Ile Pro Pro Leu Ala Thr His Thr Ile Cys
134 65 70 75 80
137 Asp Arg Asn His Thr Trp Leu Pro Val Ser Asp Asp Ala Cys Tyr Arg
138 85 90 95
141 Glu Thr Cys Pro Tyr Ile Arg Asp Pro Leu Asn Gly Gln Ala Val Pro
142 100 105 110

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145 Ala Asn Gly Thr Tyr Glu Phe Gly Tyr Gln Met His Phe Ile Cys Asn
146      115      120      125
149 Glu Gly Tyr Tyr Leu Ile Gly Glu Glu Ile Leu Tyr Cys Glu Leu Lys
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153 Gly Ser Val Ala Ile Trp Ser Gly Lys Pro Pro Ile Cys Glu Lys Val
154 145      150      155      160
157 Leu Cys Thr Pro Pro Pro Lys Ile Lys Asn Gly Lys His Thr Phe Ser
158      165      170      175
161 Glu Val Glu Val Phe Glu Tyr Leu Asp Ala Val Thr Tyr Ser Cys Asp
162      180      185      190
165 Pro Ala Pro Gly Pro Asp Pro Phe Ser Leu Ile Gly Glu Ser Thr Ile
166      195      200      205
169 Tyr Cys Gly Asp Asn Ser Val Trp Ser Arg Ala Ala Pro Glu Cys Lys
170      210      215      220
173 Val Val Lys Cys Arg Phe Pro Val Val Glu Asn Gly Lys Gln Ile Ser
174 225      230      235      240
177 Gly Phe Gly Lys Lys Phe Tyr Tyr Lys Ala Thr Val Met Phe Glu Cys
178      245      250      255
181 Asp Lys Gly Phe Tyr Leu Asp Gly Ser Asp Thr Ile Val Cys Asp Ser
182      260      265      270
185 Asn Ser Thr Trp Asp Pro Pro Val Pro Lys Cys Leu Lys Val Ser Thr
186      275      280      285
189 Ser Ser Thr Thr Lys Ser Pro Ala Ser Ser Ala Ser Gly Pro Arg Pro
190      290      295      300
193 Thr Tyr Lys Pro Pro Val Ser Asn Tyr Pro Gly Tyr Pro Lys Pro Glu
194 305      310      315      320
197 Glu Gly Ile Leu Asp Ser Leu Asp Val Trp Val Ile Ala Val Ile Val
198      325      330      335
201 Ile Ala Ile Val Val Gly Val Ala Val Ile Cys Val Val Pro Tyr Arg
202      340      345      350
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206      355      360      365
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213 &lt;210&gt; SEQ ID NO: 3

214 &lt;211&gt; LENGTH: 15

215 &lt;212&gt; TYPE: PRT

216 &lt;213&gt; ORGANISM: artificial sequence

218 &lt;220&gt; FEATURE:

219 <223> OTHER INFORMATION: polypeptide sequence of the STP-A region, which is inserted  
before

220 e the STP-B region of CD46 in certain splice variants of CD46

222 &lt;400&gt; SEQUENCE: 3

224 Val Leu Pro Pro Ser Ser Thr Lys Pro Pro Ala Leu Ser His Ser

225 1 5 10 15

228 &lt;210&gt; SEQ ID NO: 4

229 &lt;211&gt; LENGTH: 1110

230 &lt;212&gt; TYPE: DNA

231 &lt;213&gt; ORGANISM: homo sapiens

233 &lt;400&gt; SEQUENCE: 4

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238 tttgaagcta tggagctcat tggtaaacca aaaccctact atgagattgg tgaacgagta      180
240 gattataagt gtaaaaaagg atactttctat atacctcctc ttgccacca tactatttgt      240
242 gatcggaatc atacatggct acctgtctca gatgacgcct gttatagaga aacatgtcca      300
244 tatatacggg atcctttaaa tggccaagca gtccctgcaa atgggactta cgagtttggt      360
246 tatcagatgc actttatttg taatgagggt tattacttaa ttggtgaaga aattctatat      420
248 tgtgaactta aaggatcagt agcaatttgg agcggtaagc cccaatatg tgaaaagggt      480
250 ttgtgtacac cacctccaaa aataaaaaat ggaaaacaca cctttagtga agtagaagta      540
252 tttgagtatc ttgatgcagt aacttatagt tgtgatcctg cacctggacc agatccattt      600
254 tcacttattg gagagagcac gatttattgt ggtgacaatt cagtgtggag tcgtgctgct      660
256 ccagagtgtg aagtgggtcaa atgtcgattt ccagtagtcg aaaatggaaa acagatatca      720
258 ggatttgga aaaaatttta ctacaaagca acagttatgt ttgaatgcga taagggtttt      780
260 tacctcgatg gcagcgacac aattgtctgt gacagtaaca gtacttggga tccccagtt      840
262 ccaaagtgtc ttaaagggtcc taggcctact tacaagcctc cagtctcaaa ttatccagga      900
264 tatcctaaac ctgaggaagg aatacttgac agtttggatg tttgggtcat tgctgtgatt      960
266 gttattgcca tagttgttgg agttgcagta atttgtgttg tcccgtagag atatcttcaa      1020
268 aggaggaaga agaaaggga agcagatggg ggagctgaat atgccactta ccagactaaa      1080
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274 <211> LENGTH: 1089
275 <212> TYPE: DNA
276 <213> ORGANISM: homo sapiens
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283 tttgaagcta tggagctcat tggtaaacca aaaccctact atgagattgg tgaacgagta      180
285 gattataagt gtaaaaaagg atactttctat atacctcctc ttgccacca tactatttgt      240
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291 tatcagatgc actttatttg taatgagggt tattacttaa ttggtgaaga aattctatat      420
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301 ccagagtgtg aagtgggtcaa atgtcgattt ccagtagtcg aaaatggaaa acagatatca      720
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307 ccaaagtgtc ttaaagggtcc taggcctact tacaagcctc cagtctcaaa ttatccagga      900
309 tatcctaaac ctgaggaagg aatacttgac agtttggatg tttgggtcat tgctgtgatt      960
311 gttattgcca tagttgttgg agttgcagta atttgtgttg tcccgtagag atatcttcaa      1020
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315 tctctctga                                1089
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321 <213> ORGANISM: homo sapiens
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326 ctggcgccca tgggtgttgc tctgtactcc ttctccgatg cctgtgagga gccaccaaca 120
328 tttgaagcta tggagctcat tggtaaacca aaaccctact atgagattgg tgaacgagta 180
330 gattataagt gtaaaaaagg atactttctat atacctcctc ttgccacca tactatattgt 240
332 gatcggaatc atacatggct acctgtctca gatgacgctt gttatagaga aacatgtcca 300
334 tatatacggg atccttttaa tggccaagca gtccctgcaa atgggactta cgagtttggt 360
336 tatcagatgc actttatttg taatgagggt tattacttaa ttggtgaaga aattctatat 420
338 tgtgaactta aaggatcagt agcaatttgg agcggtaagc cccaatatg tgaaaagggt 480
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342 tttagtatc ttgatgcagt aacttatagt tgtgatcctg cacctggacc agatccattt 600
344 tcacttattg gagagagcac gatttattgt ggtgacaatt cagtgtggag tcgtgctgct 660
346 ccagagtgtg aagtgggtcaa atgtcgattt ccagtagtcg aaaatggaaa acagatatca 720
348 ggatttgga aaaaatttta ctacaaagca acagttatgt ttgaatgcga taagggtttt 780
350 tacctcgatg gcagcgacac aattgtctgt gacagtaaca gtacttggga tccccagtt 840
352 ccaaagtgtc ttaaagggtcc taggcctact tacaagcctc cagtctcaa ttatccagga 900
354 tatcctaaac ctgaggaagg aatacttgac agtttggtatg tttgggtcat tgctgtgatt 960
356 gttattgcca tagttgttgg agttgcagta atttgtgttg tcccgtacag atatcttcaa 1020
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360 tcaaccactc cagcagagca gagaggctga 1110

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363 &lt;210&gt; SEQ ID NO: 7

364 &lt;211&gt; LENGTH: 1110

365 &lt;212&gt; TYPE: DNA

366 &lt;213&gt; ORGANISM: homo sapiens

368 &lt;400&gt; SEQUENCE: 7

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373 tttgaagcta tggagctcat tggtaaacca aaaccctact atgagattgg tgaacgagta 180
375 gattataagt gtaaaaaagg atactttctat atacctcctc ttgccacca tactatattgt 240
377 gatcggaatc atacatggct acctgtctca gatgacgctt gttatagaga aacatgtcca 300
379 tatatacggg atccttttaa tggccaagca gtccctgcaa atgggactta cgagtttggt 360
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389 tcacttattg gagagagcac gatttattgt ggtgacaatt cagtgtggag tcgtgctgct 660
391 ccagagtgtg aagtgggtcaa atgtcgattt ccagtagtcg aaaatggaaa acagatatca 720
393 ggatttgga aaaaatttta ctacaaagca acagttatgt ttgaatgcga taagggtttt 780
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397 ccaaagtgtc ttaaagggtcc taggcctact tacaagcctc cagtctcaa ttatccagga 900
399 tatcctaaac ctgaggaagg aatacttgac agtttggtatg tttgggtcat tgctgtgatt 960
401 gttattgcca tagttgttgg agttgcagta atttgtgttg tcccgtacag atatcttcaa 1020
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405 tcaaccactc cagcagagca gagaggctga 1110

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410 &lt;212&gt; TYPE: DNA

411 &lt;213&gt; ORGANISM: homo sapiens

413 &lt;400&gt; SEQUENCE: 8

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RAW SEQUENCE LISTING ERROR SUMMARY      DATE: 12/05/2005  
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:11; N Pos. 35,1109

**VERIFICATION SUMMARY**

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Input Set : A:\Sequence Listing ASCII, Docket No. 1700.0640000.ST25.txt

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L:11 M:270 C: Current Application Number differs, Replaced Current Application No  
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:80 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:2,Line#:73  
L:90 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:2,Line#:83  
L:560 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0  
L:596 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:1080